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FALSIFICATION TABLES

1941

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FALSIFICATION TABLES

1. Object

The object of the tables is to enable a *deliberately false adjustment* to be put on the instrument. This will make the most accurate range-taker make a known error in the range to any object.

Thus—known ranges are capable of almost infinite variation, and range-takers can be practised or tested on objects to which they may already know the true range.

It should be realized that accuracy charts can only be kept on TRUE ranges, and as many of these as possible should be available.

2. Theoretical explanation

The table shows the angle in seconds measured at the eye by the instrument—base length 80 cms.—magnification 14 diameters.

If the angle on which the instrument is adjusted is altered by a certain number of seconds, all other angles that the instrument measures will be correspondingly altered. The instrument will then obtain not true but falsified ranges.

3. Practical explanation

The first column shows the true range in tens of yards.

The corresponding angle is shown in the next column headed ANGLE—thus 1000 yards = 2526 seconds.

So far the range has only been found to a multiple of 10 yards. The remaining columns headed 1 to 9 YARDS are used to find the angle for a range correct to a yard.

The last two figures of angle must be replaced by the pair of figures under its respective digit and opposite the tens of yards in question; thus, 1006 yards = 2511 seconds.

The figures relating to the *hundreds* of seconds are bracketed between bars—example :—1011 yards = 2499 seconds.

The alteration made for the adjustment must be maintained throughout the series and must not be divulged.

The alteration in angle should be sufficiently large to ensure that the ranges are appreciably altered, but not so large as to give readings off the C.A.S. adjustment. As a guide—10r² is 24 seconds, and 40 seconds will alter the C.A.S. adjustment by about 1 Div.

Range	Angle	1	2	3	4	5	6	7	8	9 yds.
1300	19 43	42	40	39	37	36	35	33	32	30
10	29	27	26	24	23	21	20	18	17	15
20	14	13	11	10	08	07	05	04	02	01
30	00	98	97	95	94	92	91	90	88	87
40	18 85	84	83	81	80	78	77	76	74	73
50	71	70	69	67	66	65	63	62	60	59
60	58	56	55	54	52	51	50	48	47	45
70	44	43	41	40	39	37	36	35	33	32
80	31	29	28	27	26	24	23	22	20	19
90	18	16	15	14	12	11	10	08	07	06
1400	05	03	02	01	99	98	97	96	94	93
10	17 92	90	89	88	87	85	84	83	82	80
20	79	78	77	75	74	73	72	71	69	68
30	67	66	64	63	62	61	59	58	57	56
40	54	53	52	51	50	48	47	46	45	44
50	42	41	40	39	38	36	35	34	33	32
60	30	29	28	27	26	25	23	22	21	20
70	19	18	16	15	14	13	12	11	09	08
80	07	06	05	04	02	01	00	99	98	97
90	16 96	95	94	92	91	90	89	88	87	85
1500	84	83	82	81	80	79	78	76	75	74
10	73	72	71	70	69	68	66	65	64	63
20	62	61	60	59	58	57	56	55	53	52
30	51	50	49	48	47	46	45	44	43	42
40	41	40	38	37	36	35	34	33	32	31
50	30	29	28	27	26	25	24	23	22	21
60	19	18	17	16	15	14	13	12	11	10
70	09	08	07	06	05	04	03	02	01	00
80	15 99	98	97	96	95	94	93	92	91	90
90	89	88	87	86	85	84	83	82	81	80
1600	79	78	77	76	75	74	73	72	71	70
10	69	68	67	66	65	64	63	62	61	60
20	60	59	58	57	56	55	54	53	52	51
30	50	49	48	47	46	45	44	42	41	40
40	50	40	39	38	37	36	35	34	33	32
50	31	30	29	28	27	26	25	24	23	22
60	22	21	20	19	18	17	16	15	14	13
70	13	12	11	10	09	08	07	06	05	04
80	04	03	02	01	00	99	99	98	97	96
90	14 95	94	93	92	91	91	90	89	88	87
1700	86	85	84	83	82	81	80	79	78	77
10	77	77	76	75	74	73	72	71	71	70
20	69	68	67	66	65	64	63	62	61	60
30	60	60	59	58	57	56	55	54	53	52
40	52	51	50	50	49	48	47	46	45	44

Range	Angle	1	2	3	4	5	6	7	8	9 yds.
1750	14 44	43	42	41	40	40	39	38	37	36
60	35	35	34	33	32	31	31	30	29	28
70	27	27	26	25	24	23	23	22	21	20
80	19	19	18	17	16	15	15	14	13	12
90	11	11	10	09	08	07	07	06	05	04
1800	04	03	02	01	00	00	99	98	97	97
10	13 96	95	94	94	93	92	91	90	90	89
20	88	87	87	86	85	84	84	83	82	81
30	81	80	79	78	78	77	76	75	75	74
40	73	72	72	71	70	69	69	68	67	66
50	66	65	64	63	63	62	61	61	60	59
60	58	58	57	56	55	55	54	53	52	52
70	51	50	50	49	48	47	47	46	45	45
80	44	43	42	42	41	40	40	39	38	38
90	37	36	35	35	34	33	33	32	31	30
1900	30	29	28	28	27	26	26	25	24	23
10	23	22	21	21	20	19	19	18	17	17
20	16	15	15	14	13	12	12	11	10	10
30	09	08	08	07	06	06	05	04	04	03
40	02	02	01	00	00	99	98	98	97	96
50	12 96	95	94	94	93	92	92	91	90	90
60	89	88	88	87	86	86	85	84	84	83
70	82	82	81	81	80	79	79	78	77	77
80	76	75	75	74	73	73	72	72	71	70
90	70	69	68	68	67	66	66	65	65	64
2000	63	63	62	61	61	60	60	59	58	58
10	57	56	56	55	55	54	53	53	52	51
20	51	50	50	49	48	48	47	46	46	45
30	45	44	43	43	42	42	41	40	40	39
40	38	38	37	37	36	35	35	34	34	33
50	32	32	31	31	30	29	29	28	28	27
60	26	26	25	25	24	23	23	22	22	21
70	20	20	19	19	18	18	17	16	16	15
80	15	14	13	13	12	12	11	11	10	09
90	09	08	08	07	07	06	06	05	04	04
2100	03	03	02	01	01	00	00	99	99	98
10	11 97	97	96	96	95	95	94	93	93	92
20	92	91	91	90	89	89	88	88	87	87
30	86	86	85	84	84	83	83	82	82	81
40	81	80	79	79	78	78	77	77	76	76
50	75	75	74	73	73	72	72	71	71	70
60	69	69	68	68	68	67	66	66	65	65
70	64	64	63	63	62	62	61	61	60	59
80	59	58	58	57	57	56	56	55	55	54
90	54	53	53	52	52	51	50	50	49	49

Range	Angle	1	2	3	4	5	6	7	8	9 yds.
2200	11 48	48	47	47	46	46	45	45	44	44
10	43	43	42	42	41	41	40	40	39	39
20	38	37	37	36	36	35	35	34	34	33
30	30	32	32	31	31	30	30	29	29	28
40	28	27	27	26	26	25	25	24	24	23
50	23	22	22	21	21	20	20	19	19	18
60	18	17	17	16	16	15	15	14	14	13
70	13	13	12	12	11	11	10	10	09	09
80	08	08	07	07	06	06	06	05	04	04
90	03	03	02	02	01	01	00	00	99	99
2300	10 98	98	98	97	97	96	96	95	95	94
10	94	93	93	92	92	91	91	90	90	89
20	89	89	88	88	87	87	86	86	85	85
30	84	84	83	83	82	82	81	81	81	80
40	80	79	79	78	78	77	77	76	76	75
50	75	75	74	74	73	73	72	72	71	71
60	70	70	70	69	69	68	68	67	67	66
70	66	66	65	65	64	64	63	63	62	62
80	61	61	61	60	60	59	59	58	58	58
90	57	57	56	56	55	55	54	54	54	53
2400	53	52	52	51	51	50	50	50	49	49
10	48	48	47	47	47	46	46	45	45	44
20	44	44	43	43	42	42	41	41	41	40
30	40	39	39	38	38	38	37	37	36	36
40	35	35	35	34	34	33	33	32	32	32
50	31	31	30	30	30	29	29	28	28	27
60	27	27	26	26	25	25	25	24	24	23
70	23	22	22	22	21	21	20	20	20	19
80	19	18	18	17	17	17	16	16	15	15
90	15	14	14	13	13	13	12	12	11	11
2500	11	10	10	09	09	09	08	08	07	07
10	07	06	06	05	05	05	04	04	03	03
20	03	02	02	01	01	01	00	00	99	99
30	9 99	98	98	97	97	97	96	96	95	95
40	95	94	94	94	93	93	92	92	92	91
50	91	90	90	90	89	89	88	88	88	87
60	87	87	86	86	85	85	84	84	84	83
70	83	83	82	82	82	81	81	80	80	80
80	79	79	78	78	78	77	77	76	76	76
90	75	75	75	74	74	74	73	73	72	72
2600	72	71	71	71	70	70	69	69	69	68
10	68	68	67	67	67	66	66	65	65	65
20	64	64	64	63	63	62	62	62	61	61
30	61	60	60	60	59	59	58	58	58	57
40	57	57	56	56	56	55	55	54	54	54

Range	Angle	1	2	3	4	5	6	7	8	9 yds.
2650	9 53	53	53	52	52	52	51	51	51	50
60	50	49	49	49	48	48	48	47	47	47
70	46	46	46	45	45	44	44	44	43	43
80	43	42	42	42	41	41	41	40	40	40
90	39	39	39	38	38	37	37	37	36	36
2700	36	35	35	35	34	34	34	33	33	33
10	32	32	32	31	31	31	30	30	30	29
20	29	29	28	28	27	27	27	26	26	26
30	25	25	25	24	24	24	23	23	23	22
40	22	22	21	21	21	20	20	20	19	19
50	19	18	18	18	17	17	17	16	16	16
60	15	15	15	14	14	14	13	13	13	12
70	12	12	11	11	11	10	10	10	09	09
80	09	08	08	08	07	07	07	07	06	06
90	06	05	05	05	04	04	04	03	03	03
2800	02	02	02	01	01	01	00	00	00	99
10	8 99	99	99	98	98	98	97	97	97	96
20	96	96	95	95	95	94	94	94	93	93
30	93	92	92	92	91	91	91	91	90	90
40	90	89	89	89	88	88	88	87	87	87
50	86	86	86	86	85	85	85	84	84	84
60	83	83	83	82	82	82	82	81	81	81
70	80	80	80	79	79	79	78	78	78	78
80	77	77	77	76	76	76	75	75	75	75
90	74	74	74	73	73	73	72	72	72	72
2900	71	71	71	70	70	70	69	69	69	69
10	68	68	68	67	67	67	66	66	66	66
20	65	65	65	64	64	64	63	63	63	63
30	62	62	62	61	61	61	61	60	60	60
40	59	59	59	58	58	58	58	57	57	57
50	56	56	56	56	55	55	55	54	54	54
60	54	53	53	53	52	52	52	52	51	51
70	51	50	50	50	50	49	49	49	48	48
80	48	48	47	47	47	46	46	46	46	45
90	45	45	44	44	44	44	43	43	43	42
3000	42	42	42	41	41	41	40	40	40	40
10	39	39	39	39	38	38	38	37	37	37
20	37	36	36	36	35	35	35	35	34	34
30	34	34	33	33	33	32	32	32	32	31
40	31	31	31	30	30	30	29	29	29	29
50	28	28	28	28	27	27	27	26	26	26
60	26	25	25	25	25	24	24	24	23	23
70	23	23	22	22	22	22	21	21	21	21
80	20	20	20	19	19	19	19	18	18	18
90	18	17	17	17	17	16	16	16	16	15

Range	Angle	1	2	3	4	5	6	7	8	9 yds.
3100	8 15	15	14	14	14	14	13	13	13	13
10	12	12	12	12	11	11	11	11	10	10
20	10	10	09	09	09	08	08	08	08	07
30	07	07	07	06	06	06	06	05	05	05
40	05	04	04	04	04	03	03	03	03	02
50	02	02	02	01	01	01	01	00	00	00
60	00	99	99	99	99	98	98	98	98	97
70	7 97	97	96	96	96	95	95	95	95	95
80	94	94	94	94	93	93	93	93	92	92
90	92	92	92	91	91	91	91	90	90	90

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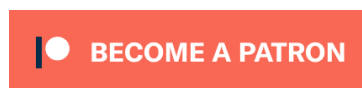
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